

IN THE CLAIMS:

MARKED-UP VERSION OF THE AMENDED CLAIMS

(Version with marking to show changes made)

1. (currently amended) An improved power assisted lever arm ratchet which is comprised of a ratchet handle containing a drive motor, a ratchet extension attached to the ratchet handle, a ratchet extension shaft attached to the ratchet handle and a ratchet head attached to the ratchet extension and to the ratchet extension shaft.
2. (previously presented) An improved power assisted lever arm ratchet as described in claim 1 in which said ratchet extension and ratchet extension shaft are approximately six to thirty inches in length.
3. (currently amended) An improved power assisted lever arm ratchet which is comprised of a ratchet handle containing a drive motor, a removable ratchet extension attached to the ratchet handle, a removable ratchet extension shaft attached to the ratchet handle and a ratchet head attached to the ratchet extension and to the ratchet extension shaft, wherein the ratchet extension and the ratchet extension shaft are separately removable.

4. (previously presented) An improved power assisted lever arm ratchet as described in claim 3 in which said ratchet extension and ratchet extension shaft are approximately six to thirty inches in length.

5. (currently amended) An improved power assisted lever arm ratchet which is comprised of a ratchet handle containing a drive motor, a plurality of different length removable ratchet extensions, a plurality of removable ratchet extension shafts and a ratchet head, wherein the plurality of removable ratchet extensions and the plurality of ratchet extension shafts are separately removable.

6. (previously presented) An improved power assisted lever arm ratchet as described in claim 5 in which said ratchet extensions and ratchet extension shafts range from approximately six to thirty inches in length.

7. (currently amended) An improved power assisted lever arm ratchet which is comprised of a ratchet handle containing a drive motor fixedly attached to a ratchet extension, a ratchet extension shaft fixedly attached to said ratchet handle and a removable ratchet head attached to the ratchet extension and to the ratchet extension shaft.

8. (previously presented) An improved power assisted lever arm ratchet as described in claim 7 in which said ratchet extension and ratchet extension shaft are approximately six to thirty inches in length.

9. (currently amended) An improved power assisted lever arm ratchet which is comprised of a ratchet head fixedly attached to a ratchet extension, a ratchet extension shaft fixedly attached to said ratchet head and a removable ratchet handle containing a drive motor, wherein the removable ratchet handle is attached to the ratchet extension and to the ratchet extension shaft.

10. (previously presented) An improved power assisted lever arm ratchet as described in claim 9 in which said ratchet extension and ratchet extension shaft are approximately six to thirty inches in length.

11. (previously presented) A ratchet extension and extension shaft with attachment means to permit said extension and extension shaft to be installed on a conventional power assisted lever arm ratchet.

12. (previously presented) An improved power assisted lever arm ratchet comprising

a ratchet handle containing an air drive motor,

an air line connection furnished to the ratchet handle;

a drive shaft protruding from the ratchet handle;

a ratchet extension having a first end and having a second end, wherein the first end of the ratchet extension is attached to the ratchet handle;

a ratchet extension shaft having a first end and a second end, wherein the ratchet extension shaft is disposed substantially parallel to the ratchet extension, and wherein the ratchet extension shaft is unsupported apart from support furnished to the first end of the ratchet extension shaft and the second end of the ratchet extension shaft;

a drive socket attached to the first end of the ratchet extension shaft and connected to the drive shaft protruding from the ratchet handle;

a drive tang attached to the second end of the ratchet extension shaft;

a ratchet head having a socket mount and having attached the second end of the ratchet extension;

a ratchet head drive shaft attached to the ratchet head and connected to the drive tang of the ratchet extension shaft.

13. (previously presented) The improved power assisted lever arm ratchet according to claim 12

further comprising

an interface collar furnished to the first end of the ratchet extension;

a ratchet head mount furnished to the second end of the ratchet extension.

14. (previously presented) The improved power assisted lever arm ratchet according to claim 12

further comprising

an interface collar furnished to the first end of the ratchet extension;

a drive extension sleeve mounting collar (301) attached to the ratchet handle, wherein the interface collar is removably attached to the drive extension sleeve mounting collar.

15. (previously presented) The improved power assisted lever arm ratchet according to claim 14

further comprising

a ratchet head mount furnished to the second end of the ratchet extension.

a drive extension mounting collar (302) attached to the ratchet head, wherein the ratchet head mount is removably attached to the drive extension mounting collar.

16. (previously presented) The improved power assisted lever arm ratchet according to claim 12

further comprising

a ratchet head mount furnished to the second end of the ratchet extension.

a drive extension mounting collar (302) attached to the ratchet head, wherein the ratchet head mount is removably attached to the drive extension mounting collar.

17. (previously presented) An improved power assisted lever arm ratchet comprising

a ratchet handle containing an air drive motor,

an air line connection furnished to the ratchet handle;

a drive shaft protruding from the ratchet handle;

a ratchet extension having a first end and having a second end, wherein the first end of the ratchet extension is attached to the ratchet handle;

a ratchet extension shaft having a first end and a second end, wherein the ratchet extension shaft is disposed substantially parallel to the ratchet extension, and wherein the ratchet extension shaft is unsupported apart from support furnished to the first end of the ratchet extension shaft and the second end of the ratchet extension shaft;

a drive socket attached to the first end of the ratchet extension shaft and connected to the drive shaft protruding from the ratchet handle;

a ratchet head having a socket mount and having attached the second end of the ratchet extension; wherein the second end of the ratchet extension shaft is attached to the ratchet head.

18. (previously presented) The improved power assisted lever arm ratchet according to claim 17

further comprising

an interface collar furnished to the first end of the ratchet extension;

a drive extension sleeve mounting collar (301) attached to the ratchet handle, wherein the interface collar is removably attached to the drive extension sleeve mounting collar.

19. (new) An improved power assisted lever arm ratchet comprising
a ratchet handle (101) containing an air drive motor,
an air line connection (105) furnished to the ratchet handle (101);
a ratchet extension (102) having a first end and having a second end, wherein the first end of the ratchet extension is attached to the ratchet handle;
a ratchet extension shaft (202) having a first end and a second end, wherein the ratchet extension shaft (202) is disposed substantially parallel to the ratchet extension (102),
and wherein the ratchet extension shaft (202) is unsupported apart from support

furnished to the first end of the ratchet extension shaft and the second end of the ratchet extension shaft; wherein the first end of the ratchet extension shaft (202) is attached to the ratchet handle (101);

a ratchet head (103) having a socket mount (104) and having attached the second end of the ratchet extension (102) and having attached the second end of the ratchet extension shaft (202)..

20. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising

a drive tang (202B) attached to the second end of the ratchet extension shaft (202);

a ratchet head drive shaft (203) attached to the ratchet head (103), wherein the drive tang (202B) engages the ratchet head drive shaft (203).

21. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising

a drive shaft (201) attached to the ratchet handle (101);

a drive socket (202A) attached to the first end of the ratchet extension shaft (102), wherein the drive socket (202A) engages the drive shaft (201).

22. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising
wherein the ratchet head (103) is demountable from the ratchet handle (101).

23. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising
male threads located on an end of the ratchet handle;
an interface collar furnished to the first end of the ratchet extension and engaging the male threads located at the end of the ratchet handle;
an interface thread (102B) located at the second end of the ratchet extension (102);
a threaded collar disposed on the ratchet head (103), wherein the interface thread (102B) engages the threaded collar.

24. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising
a drive extension sleeve mounting collar (301) disposed at the ratchet handle (101);
a drive extension mounting collar (302) disposed at the ratchet head (103);
a drive shaft (201) mounted at the ratchet handle (101), wherein the first end of the ratchet extension shaft (202) engages the drive shaft (201);

a ratchet head drive shaft (203) mounted at the ratchet head (103), wherein the second end of the ratchet extension shaft (202) is engaged with the ratchet head drive shaft (203);

wherein the ratchet extension is removably attached to the drive extension sleeve mounting collar (301) and to the drive extension mounting collar (302).

25. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising

a. drive extension sleeve mounting collar (301) disposed at the ratchet handle (101);

a drive extension mounting collar (302) disposed at the ratchet head (103);

a ratchet head drive shaft (203) mounted at the ratchet head (103), wherein the second end of the ratchet extension shaft (202) engages the ratchet head drive shaft (203);

a drive shaft (201) mounted at the ratchet handle (101), wherein the first end of the ratchet extension shaft (202) is engaged with the drive shaft (201);

wherein the ratchet extension is removably attached to the drive extension sleeve mounting collar (301) and to the drive extension mounting collar (302).

26. (new) The improved power assisted lever arm ratchet according to claim 19 further comprising

a ratchet head drive shaft (203) attached to the ratchet head (103) and extended to a length appropriate, wherein ratchet extension (202) is fixedly attached to ratchet head (103);

a drive shaft (201) attached to the ratchet handle (101), wherein the ratchet head drive shaft (203) engages the drive shaft (101);

a drive extension sleeve mounting collar (301) disposed at the ratchet handle (101), wherein the ratchet extension (102) is removably attached to the drive extension sleeve mounting collar (301)

27. (new) The improved power assisted lever arm ratchet according to claim 19 wherein the ratchet extension is furnished by a tubular piece and wherein the ratchet extension shaft is furnished by a solid rod.

28. (new) The improved power assisted lever arm ratchet according to claim 19 wherein the ratchet extension shaft (202) is connected to a rotary output of the air drive motor and wherein the socket mount (204) is rotation transferring connected to the ratchet extension shaft (202).

29. (new) The improved power assisted lever arm ratchet according to claim 19

wherein the ratchet extension shaft is disposed in the ratchet extension and disposed for freely rotating in the ratchet extension.

30. (new) The improved power assisted lever arm ratchet according to claim 19 wherein the ratchet extension surrounds the ratchet extension shaft without contact between the ratchet extension and the ratchet extension shaft.

31. (new) The improved power assisted lever arm ratchet according to claim 19 wherein the ratchet extension and the ratchet extension shaft are separate elements, wherein the relative position of ratchet extension and ratchet extension shaft are defined by the respective mountings on the ratchet handle and on the ratchet head.